

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Currently Amended) A process for the manufacture of a hydrogen storage material, the process comprising comminuting a source of magnesium under a reducing atmosphere for a time sufficient to produce particles of a required particle size and crystallite size, and introducing at least one reducible platinum group metal (PGM) compound; wherein the at least one PGM compound is substantially reduced in oxidation state during comminution, and is distributed substantially at the surface of the particles.
2. (Original) A process according to claim 1, wherein the reducing atmosphere comprises hydrogen.
3. (Currently Amended) A process according to claim 1 ~~or claim 2~~, wherein the source of magnesium is selected from the group consisting of ~~comprises~~ magnesium metal, magnesium hydride, ~~or an alloy of~~ magnesium metal with one or more other metals, ~~or an~~ intermetallic compound of magnesium metal with one or more other metals, ~~or a~~ hydrided alloy of magnesium metal with one or more other metals ~~or and a~~ hydrided intermetallic compound of magnesium with one or more other metals.
4. (Currently Amended) A process according to ~~any preceding claim 1~~, wherein the comminution step is carried out using a ball mill.
5. (Currently Amended) A process according to ~~any preceding claim 1~~, wherein the at least one reducible PGM compound is introduced towards the end of the comminution step.
6. (Currently Amended) A process according to ~~any preceding claim 1~~, wherein the at least one reducible PGM compound is selected from the group consisting of ~~comprises~~ an oxide, a hydrated oxide, a halide, ~~or another salt, and/or~~ any mixture thereof.
7. (Currently Amended) A process according to claim 6, wherein the at least one reducible PGM compound is selected from the group consisting of ~~comprises~~ PdO, PdO.H₂O, palladium black, ruthenium black ~~or and~~ RuO₂.
8. (Currently Amended) A process according to ~~any preceding claim 1~~, wherein the particles have an average particle size of less than 100µm.

9. (Currently Amended) A process according to ~~any preceding claim 1~~, wherein the particles have an average crystallite size of less than 100nm. |
10. (Currently Amended) A process according to claim 8, wherein the particles have an average crystallite size of less than 100nm. |